

KALYATSKIY, I.I.; LIMASOV, A.I.

Study of the pulse electric strength of some solid dielectrics
of great thickness. Izv. SO AN SSSR no.2. Ser. tekhn. nauk no.1:
79-84 '64. (MIRA 17:8)

1. Transportno-energeticheskiy institut Sibirskogo otdeleniya
AN SSSR, Novosibirsk.

LIMASOV, A.I., inzh.; CHEPIKOV, A.T., inzh.

Studying the piercing of rock under voltage pulse action. Izv.vys.ucheb.
zav.;gor.zhur. 7 no.6:52-54 '64, (MIRA 17:12)

1. Tomskiy politekhnicheskoy institut imeni S.M.Kirova.

SVESHNIKOV, B.Ya. [deceased]; SHIROKOV, V.I.; LIMAREVA, L.A.

Mechanism underlying the concentration quenching of the
luminescence of solutions of fluorescein, rhodamine, and
tryptaflavine in glycerine. Izv.AN SSSR.Ser.fiz. 27 no.4:
551-553 Ap '63. (MIRA 16:4)
(Organic compounds) (Luminescence)

VOLKOV, S.V.; LIMAREVA, L.A.; SHIROKOV, V.I.

Ultrahigh-frequency phase fluorimeter. Izv.AN SSSR.Ser.fiz. 27
no.4:558-561 Ap '63. (MIRA 16:4)

(Fluorimeter)

TRUCHOVENKO, A.T.; LIMASOVA, T.I.

Study of the chemical composition of *Sapientia multivaria* P.S.
Izv. SO AN SSSR no.7 Ser. Khim. nauk no.2199-95 1964.
(Mik. 13.12)

1. Novosibirskiy institut organicheskoy khimii Sibirskoye
otdeleniya AN SSSR. Submitted March 5, 1964.

LIMBAKH, YU.I.

3(6,10)

PHASE I BOOK EXPLOITATION

SOV/1387

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Prikladnaya geofizika; sbornik statey, vyp. 21 (Applied Geophysics; Collection of Articles, Nr 21) Moscow, Gostoptekhizdat, 1958. 221 p. 3,000 copies printed.

Additional Sponsoring Agency: U.S.S.R. Ministerstvo geologii i okhrany neдр.

Ed.: Polshkov, M.K.; Exec. Ed.: Kuz'mina, N.N.; Tech. Ed.: Mukhina, E.A.

PURPOSE: This collection of articles is intended for engineering and technical personnel and those interested in the methodology and practice of geophysical surveying.

Card 1/4

Applied Geophysics (Cont.)

SOV/1387

COVERAGE: The authors discuss the development and improvements in the technology and methodology of geophysical surveying. Two of the articles describe graphic-analytical methods of frequency analysis and synthesis of oscillations; others present a geological interpretation of geophysical observations in certain areas of the USSR. The articles devoted to industrial application present a detailed analysis of neutron-neutron logging, side-wall coring, and the method of induced potential fields. The last article describes the conventional symbols accepted in applied geophysics. The articles are accompanied by tables, diagrams and bibliographic references.

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Card 2/4

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Applied Geophysics (Cont.)

SOV/1387

Voskoboynik, N.I. Testing Logging Cables

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Storing Properties of Strata

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Komarov, S.G., N.A. Per'kov. Conventional Symbols Used
in Industrial Geophysics

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AVAILABLE: Library of Congress

MM/atr
4/7/59

Card 4/4

GOL'TSMAN, F.M.; LIMBAKH, Yu.I.

Apparatus for frequency analysis and synthesis of irregular
signals. Prikl.geofiz. no.21:26-36 '58. (MIRA 12:1)
(Vibration)

82924

S/169/60/000/006/007/021

A005/A001

3.9300

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 36, # 5800

AUTHOR: Limbakh, Yu. I.

TITLE: Certain Applications of the Frequency Analysis to Seismic
Investigations

PERIODICAL: V sb.: Vopr. dinamich. teorii rasprostr. seysmich. voln. 2.
Leningrad, Leningr. un-t, 1959, pp. 106-111

TEXT: Preliminary results from applying the frequency analysis to seismic investigations are brought. The works were carried out in sections consisting of Cambrian clay and Devonian sandstone. The oscillations were excited by shocks and shots. A wide-band station with steady frequency characteristic between 5 and 200 cps was used. The frequency analysis of the test materials was performed in graphoanalytical and instrumental way. It turned out that: 1) the spectra of the transversal S waves were in all cases more in the low-frequency range than the longitudinal P wave spectra; 2) the difference in the maxima for the P and S spectra was larger in clay than in sandstones; 3) for enlarged charges, the

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82924

S/169/60/000/006/007/021
A005/A001

Certain Applications of the Frequency Analysis to Seismic Investigations

maxima of the P and S spectra were displaced into the low-frequency range;
4) for enlarged distances from the source, the spectra were narrower and shifted to the low-frequency range.

O. G. Shamina

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

VOLIN, A.P.; ZHADIN, V.V.; LIMBAKH, Yu.I.

Determining the elastic constants of soils under field conditions. Vop.din.teor.raspr.seism.voln. no.2:202-209 '59.
(MIRA 13:5)

(Elasticity) (Sand) (Clay)

GOL'TSMAN, F.M.; LIMBAKH, Yu.I.; MOISEYEV, O.N.; CHICHINOV, I.S.

Some uses of nonlinear schemes for frequency transformations
in seismic apparatus. Vop.din.teor.raspr.seism.voln. no.2:
268-289 '59. (MIRA 13:5)

(Seismometry)

82920

S/169/60/000/006/003/021

A005/A001

3.9300

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 34, # 5789

AUTHORS: Gol'tsman, F. M., Limbakh, Yu. I. ✓

TITLE: A Device for Analyzing the Frequencies of Seismic Waves Under Stationary Conditions X

PERIODICAL: V sb.: Vopr. dinamich. teorii rasprostr. seysmich. voln. 2. Leningrad, Leningr. un-t, 1959, pp. 290-303

TEXT: A device is described for determining the amplitude spectra of seismic pulses. The device is based on the known principle of replacing the analysis of single pulses by the harmonical analysis of a periodical sequence of the same pulses. The primary signals are recorded by the method of variable width. The multiple reproduction of the pulses to be analyzed is realized by means of photoelectric reproduction in reflected light. The photoelectric "record player" is driven by an electromotor. A contact device is provided in the record player for starting the intermitting relay. The analysis is carried out by a heterodyne analyzer. The heterodyne adjustment axis is connected to the record player by a step gear providing for some different rates of varying

Card 1/2

82920

S/169/60/000/006/003/021

A005/A001

A Device for Analyzing the Frequencies of Seismic Waves Under Stationary Conditions

the frequency. The spectrum is recorded visually by a microammeter and simultaneously by the MHO-2 (MFO-2) oscillograph. The signal reproduction rate is not dependent on the registration rate and may be chosen arbitrarily. The device is applicable to analyzing pulses, the spectra of which are in any range. The relative error in determining the spectral line intensity amounts on the average to 5%. There are 7 references. X

O. G. Shamina

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

S/169/62/000/007/023/149
D228/D307

AUTHOR: Limbakh, Yu. I.

TITLE: Applying the frequency theory of grouping in marine seismic surveying

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 21, abstract 7A139 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 324-326)

TEXT: The grouping of seismic detectors and explosive charges has been employed. It allowed the obtained geologic results to be improved markedly. The combination grouping unit developed at the LGU (Leningrad State University) was used to accomplish the grouping. It is shown that the effect of groups of seismic detectors and charges is equivalent. Experiments in which groups with bases of up to 160 m were used confirmed that there is no distortion of the slopes of hodographs if the apparent velocities of distinguishable waves are stable within the interval of observations. /Abstracter's note: Complete translation. Card 1/1

S/169/62/000/009/027/120
D228/D307

AUTHORS: Limbakh, Yu. I., Ganbarov, Yu. G. and Shapirovskiy,
N. I.

TITLE: Question of the frequency theory of grouping

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 28, abstract 9A186 (Collection: Nauchno-tekhn. inform. Azerb. n.-i. in-t po dobyche nefti, no. 3 spec., 1961, 3-19)

TEXT: The authors consider some experimental research on the frequency theory of grouping, carried out under conditions of marine seismic exploration. The equivalence of the grouping of sources and receivers, located in an aqueous environment, is shown experimentally. The change in the form of the experimental seismic impulse in a group's output is investigated in relation to the dimension of the seismograph group's base. A description is given of a nomographic method for estimating phase shifts in grouping in conformity with seismic signals of any form. [Abstracter's note: Complete translation.]

Card 1/1

LIMBAKH, Yu, I.

Experimental analysis of x representations of seismic signals.
Vop. din. teor. raspr. seism. voln no.4:159-180 '62.

(MIRA 15:10)

(Seismometry)

VOLODINA, K.N.; LIMBAKH, Yu.I.; NAKHAMKIN, S.A.

Determining statistical properties of seismic signals. Vop. din.
teor. raspr. seism. voln no.4:181-193 '62. (MIRA 15:10)
(Seismometry)

VOLODINA, K.N.; LIMBAKH, Yu.I.; NAKHAMKIN, S.A.

Correlation properties of seismic vibrations. Vop. din. teor.
raspr. seism. voln no.6:185-200 '62. (MIRA 16:7)
(Seismometry)

LINDEK, E.

LI EDEK, E. Measurement of television antennas. p. 242.

Vol. 5, No. 11, Nov. 1955.

RADIO-TECHNIKA

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 1, No. 5, May 1956

LEBEK, B.

Measurements of television antennas. p. 266.

Vol 5, no 12, Dec. 1955. RADIOTECHNIKA. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

LIMBEK, B.

Measurements for television antennas. (To be contd.) p. 38.
RADIOTECHNIKA. (Magyar Onkentes Honvedelmi Szovetseg) Budapest.
Vol 6, nol 2, Feb 1956.

SOURCE: EEAL, Vol 5, no. 7, July 1956.

LIMBEK, B.

Measurements for television antennas. (To be contd) p.65.
RADIOTECHNIKA. (Magyar Onkentes Honvedelmi Szovetseg) Budapest.
Vol 6, no. 3, Mar 1956.

SOURCE: EEAL, Vol 5, no. 7, July 1956.

LIMBEK, B.

Measurements for television antennas. (To be contd) P. 109
RADIOCHNIKA Budapest Vol. 6, no. 5, May 1956

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

LIMBEK, B.

LIMBEK, B. Measurements for television antennas. (To be contd.) p. 163.

Vol. 6, No. 7, July 1956.

RADIOTECHNIKA

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

LIMBEK, B.

Measurements for television antennas, p. 184, RADIOTECHNIKA,
(Magyar Onkentes Honvedelmi Szovetseg) Budapest, Vol. 6, No. 8,
Aug. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, No. 11, November 1956

S/035/62/000/003/011/053
AC01/A101

3.1900

AUTHOR: Limber, D. N.

TITLE: The analysis of spherically symmetric distributions of matter

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 3, 1962, 44,
abstract 3A321 ("Astrophys. J.", 1961, v. 134, no. 2, 537-552, Engl.)

TEXT: A mathematical formalism has been developed for the analysis of spatial distribution and gravitational properties of spherically symmetric distributed matter. It is assumed that the object under study has the well outlined boundaries. The distribution of matter can be approximately represented as the sum of several different polytropes with $0 \leq n \leq 5$. Observational data are taken from parallel bands in the projection plane. The relative density of each polytrope, taken in account, is selected so that the theoretical curve should coincide with the observational one at a certain number of points. Computational schemes of relative mass of each of the polytropic components are given, as well as total gravitational potential and the scheme of checking the virial theorem. Detailed tables of necessary functions pertaining to polytropes with $n = 0, 1, 2, 3, 4$ are presented. There are 5 references.

V. Antonov

[Abstracter's note: Complete translation]

Card 1/1

LIMBERG, Alla A., kand.med. nauk (Leningrad, Isaakiyevskaya ploshchad', d.7, kv.6)

Late results of the surgical treatment of congenital fissures of the upper lip. Vest. khir. 70 no.6:67-73 Je'63
(MIRA 16:12)

1. Iz chelyustno-litseвого otdeleniya (zav. - starshiy nauchnyy sotrudnik A.T.Titova) Leningradskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii.

LIMBERG, A.A.

GIRGOLAV, S.S., professor (Leningrad); LEVIT, V.S., professor (Moskva);
 BABCHIN, I.S., professor (Leningrad); BAKULEV, A.N., professor
 (Moskva); BEKERMEN, L.S., dotsent (Leningrad); VAYNSHTEYN, V.G.,
 professor (Leningrad); GERTSBERG, V.G., professor (Kazan');
 GINZBERG, M.M., professor (Moskva) [deceased]; GOTLIB, Ya.G.,
 professor (Moskva); DZHANELIDZE, Yu.Yu., professor (Leningrad);
 DRACHINSKAYA, Ye.S., dotsent (Leningrad); YELANSKIY, N.N., professor
 (Leningrad); KORNEV, P.G., professor (Leningrad); KOCHERGIN, I.G.,
 professor (Moskva); LIMBERG, A.A., professor (Leningrad); LINBERG,
 B.E., professor (Moskva); MEZENEV, S.A., dotsent (Leningrad);
 NAZAROV, V.M., professor (Leningrad); OZEROV, A.D., professor (Leningrad) [deceased]; OSTEN-SAKEN, E.Yu., professor (Leningrad) [deceased];
 PETROV, N.N., professor (Leningrad); POLENOV, A.L., professor (Leningrad); SAMARIN, N.P., professor (Leningrad); SHVARTS, N.V., professor
 (Leningrad) [deceased]; SHAMOV, V.N., professor (Leningrad);
 SHABANOV, A., redaktor

[Manual of specialized surgery] Uchebnik chastnoi khirurgii. Sost.
 I.S.Babchin i dr. Izd. 2-oe, ispr. i dop. Moskva, Narkomzdrav SSSR,
 Gos. izd-vo med. lit-ry "Medgiz," Vol.1. 1946. 363 p. (MIPA 10:2)
 (SURGERY)

LINBERG, A. A. PROF

USSR/Medicine - Biology
Medicine - Heredity, Mechanism

Nov 48

Leading Article, 5 pp

"Khirurgiya" No 11

Editor praises Michurin's contributions to biology. Denounces "reactionary Mendelism" in following works: "A course in General Biology Including Zoology and Parasitology" by L. YA. Blyaker, "Evolutionary and Genetic Problems in Neuropathology" by S. N. Davidenkov, and "Malignant Tumors" edited by N. N. Petrov. Stalin Prizes for 1947 were awarded to Prof A. A. Linberg for research in plastic surgery, results of which appear in monograph "Mathematical Bases of Local Plastics on the Surface of the Human Body", and to Prof S. S. Yudin for devising new surgical methods for dealing with obstruction of the esophagus.

PA 18/49T28

Limberg A.A.

LIMBERG A. A.

**Otsenka sposobov formirovaniia noshek stebel'chatogo loskuta.
/Evaluation of methods of formation of the pedicle for cutaneous
flaps/ Khirurgia, Moskva 3 Mar 50 p. 12-22.**

1. Leningrad.
SML Vol. 19, No. 1 July 1950

LIMBERG, A. A.

New method of surgical treatment of ankylosis of the mandible, especially in recidivation and in gross facial asymmetry. Intraosseous insertion of a pedicellate flap of connective tissue. Khirurgia, Moskva. no. 10:27-32 Oct. 1950. (CML 20:1)

1. Of the Maxillary-Facial Division of the Central State Traumatological Institute imeni Prof. R. R. Vreden. 2. Prof. A. A. Limberg is a Corresponding Member of the Academy of Medical Sciences USSR.

LIMBER, A. A., Prof.

Osteotomy

Necessity of osteotomy in cleft palate operations, Stomatologia, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

LIMBERG, A. A., Prof.

Nose - Surgery

Necessary geometric and biological conditions for shaping the external part of the nose by bending and doubling a flat skin flap. Stomatologia No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

LIMBERG, A.A., PROF.

Harelip

Criticism of the present trends and new surgical techniques in the treatment of congenital harelip. Khirurgia No. 6, 1952

9. Monthly List of Russian Accessions, Library of Congress, October 1953². Unclassified.

1. LIMBERG, A. A. PROF.
2. USSR (600)
4. Petrov, B. A.
7. "Free skin grafts in extensive defects." Prof. B. A. Petrov. Reviewed by Prof. A. A. Limberg. Klin.med. 30 no. 10, 1952
9. Monthly List of Russian Accessions. Library of Congress. March 1953. Unclassified.

1. LIMBERG A. A., Prof.
2. USSR (600)
4. Palate, Cleft
7. Care of children with cleft palate.
Vest. khir., 72 no. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953.
Unclassified.

SKUKINA, E.M.; LIMBERG, A.A., professor, chlen-korrespondent Akademii meditsinskikh nauk SSSR, laureat Stalinskoy premii, zaveduyushchiy; GAVRILOV, R.I., professor, direktor.

Application of plastic material AKR-7 in replacement of facial bone defects.
Stomatologiya no.3:43-46 '53. (MLRA 6:7)

1. Kafedra khirurgicheskoy stomatologii Leningradskogo meditsinskogo stomatologicheskogo instituta (for Skukina and Limberg). 2. Leningradskiy meditsinskiy stomatologicheskii institut (for Gavrilov). 3. Akademiya meditsinskikh nauk SSSR (for Limberg).

(Face--Wounds and injuries) (Surgery, Plastic)

ZHAKOV, M.P., professor; BERNADSKIY, Yu.I., dotsent; LIMBERG, A.A., professor.

Indications for osseous dissection in surgery of congenital cleft palate.
Stomatologiya no.3:46-47 '53.

(MLBA 6:7)

(Palate, Cleft)

LIMBERG, A.A. professor, chlen-korrespondent.

Semiautomatic device for the regulation of pressure under bandages following free skin transplantation. Khirurgia no.3:74-75 Mr '53. (MLRA 6:6)

1. Akademiya meditsinskikh nauk SSSR.

(Skin grafting)

YADROVA, K.S.; LIMBERG, A.A., professor, zaveduyushchiy; GAVRILOV, R.I., professor, direktor.

Wooden apparatus for mechanotherapy of the lower jaw. Stomatologiya no.4:
53-54 JI-Ag '53. (MLRA 6:9)

1. Kafedra khirurgicheskoy stomatologii Leningradskogo meditsinskogo stomatologicheskogo instituta (for Limberg and Yadrova). 2. Leningradskiy meditsinskiy stomatologicheskii institut (for Gavrillov).
(Dental instruments and apparatus)

LIMBERG, A.A., professor.

"Ankylosis of the mandibular joint." G.I.Semenchanko. Reviewed by
A.A.Limberg. Stomatologiia no.5:56-58 '53. (MLRA 7:1)
(Jaws--Ankylosis) (Semenchenko, G.I.)

LIMBERG, A. A.

Surgical repair of asymmetry of the nasal tip and alae by circular transplantation of the internal wall of the ala. Vest khir., Moskva 73 no.1:39-41 Jan-Feb 1953. (GIML 24:3)

1. Professor. 2. Of the Department of Maxillo-Facial Surgery of the State Institute for the Advanced Training of Physicians.

LIMBERG, A.A., professor

Surgical treatment of microgenia in children. Stomatologia no.2:
16-21 Mr-Apr '55. (MLRA 8:5)

(CHIN, abnormalities,

microgenia, surg. in child.)

(ABNORMALITIES,

microgenia, surg. in child.)

LIMBERG, A.A., professor (Leningrad)

~~"Free grafting of thick skin flaps in reconstructive surgery"~~ by
A.S.Silaev. Reviewed by A.A.Limberg. Ortop., travm. i protez. no.6:
70-71 N-D '55. (MIRA 9:12)

1. Chlen-korrespondent Akademii meditsinskikh nauk
(SKIN GRAFTING) (SILAEVA, A.S.)

LIMBERG, A.A., professor

Plastic surgery of cicatricial skin contractures of the fingers.
Ortop., travm. i protez. 17 no.1:3-9 Ja-F '56. (MLRA 9:12)

1. Chlen-korrespondent AMN SSSR. 2. Iz kafedry chelyustno-litsevoy
khirurgii Gosudarstvennogo instituta usovershenstvovaniya vrachey
(dir. - prof. N.I.Blinov) i chelyustno-litsevogo otdeleniya Lenin-
gradskogo instituta travmatologii i ortopedii (dir. - prof. V.S.
Balakina)

(FINGERS, wounds and inj.

causing skin contraction, plastic surg.)

(WOUNDS AND INJURIES

fingers, causing skin contraction, plastic surg.)

LIMBERG, A.A., professor

Local plastic surgery for cicatricial contractures of the fingers.
Ortop., travm. i protez. 17 no.3:46-54. My-Je '56. (MIRA 9:12)

1. Chlen-korrespondent AMN SSSR 2. Iz kafedry chelyustno-litseyoy
khirurgii Gosudarstvennogo instituta usovershenstvovaniya vrachey i
chelyustno-litseyogo otdeleniya Leningradskogo instituta travmatologii
i ortopedii.

(CONTRACTURE, surgery,
fingers, local plastic repair of cicatricial contractures
(Rus))

(FINGERS, diseases,
cicatricial contractures, local plastic repair (Rus))

LIMBERG, A.A., professor

"Plastic surgery of the skin." N.N.Blokhin. Reviewed by A.A.Limberg.
Vest.khir.77 no.3:133-135 Mr '56. (MLRA 9:7)

1. Chlen-korrespondent AMN SSSR.
(SURGERY, PLASTIC) (BLOKHIN, N.N.)

LIMBERG, A.A., prof.; DUBOV, M.D., doktor med.nauk (Leningrad)

Role of Russian authors in treating problems of therapy for cleft lips and palates. Stomatologiya 36 no.5:41-46 S-O '57. (MIRA 11:1)

1. Chlen-korrespondent AMN SSSR (for Limberg)
(HARELIP) (PALATE, CLEFT)

LIMBERG, A.A. klinicheskiy ordinator (Leningrad Isakiyevskaya ploshch.
d.7., kv.6.)

Supporting and contour plastic surgery with ground cartilage injected
by a syringe [with summary in English]. Vest.khir. 78 no.4:68-73
Ap '57. (MLRA 10:9)

1. Iz Leningradskogo instituta travmatologii i ortopedii (dir. -
prof. B.S.Balakina)
(CARTILAGE, transplantation,
needle admin. of ground prep. (Rus))

LIMBERG, A.A.

Restoration of blood circulation in flaps on pedicle. Trudy
Len.gos.nauch.-issl.inst.travm.i ortop. no.7:210-220 '58.
(MIRA 13:6)

1. Iz chelyustno-litseвого otdeleniya Leningradskogo gosudarst-
vennogo nauchno-issledovatel'skogo instituta travmatologii i
ortopedii.

(BLOOD---CIRCULATION) (SKIN GRAFTING)

LIMBERG, Alla A.

Plastic surgery in support of the edge of the apertura piriformis in asymmetries of the alae nasi. Trudy Len.gos.nauch.-issl.inst.travm.i ortop. no.7:290-292 '58. (MIRA 13:6)

1. Iz chelyustno-litseвого otdeleniya Leningradskogo gosudarstvennogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii.

(NOSE--SURGERY)

LIMBERG, A.A., prof.

Local plastic methods for sectioning small dorsal and palmar interdigital skin folds of the hand. Report No.3. Ortop. travm. i protez. 19 no.5:47-52 8-0 '58 (MIRA 11:12)

1. Iz kafedry chelyustno-litseyoy khirurgii Gosudarstvennogo instituta usovershenstvovaniya vrachey i chelyustno-litseyogo otdeleniya Leningradskogo instituta travmatologii i ortopedii, Chlen-korrespondent AMN SSSR.

(HANDS, wds. & inj.

postraum, dorsal & palmar interdigital skin fold, plastic surg. (Rus))

LIMBERG, A.A., prof., TITOVA, A.T., kand.med.nauk

Our technics in surgery of the face and jaws. Stomatologiya 37 no.4
29-33 JI-Ag '58 (MIRA 11:9)

1. Iz kafedry chelyustno-litsevoy khirurgii Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M. Kirova (dir. - prof. N.N. Blinov) i chelyustno-litseвого otdeleniya Leningradskogo instituta travmatologii i ortopedii (dir. prof. V.S. Balakina):
(FACE--SURGERY)

ROZOV, V.I., prof., LIMBERG, A.A., nauchnyy sotrudnik

Current problems in the primary suture of the flexor tendon of the finger [with summary in English]. Vest.khir. 80 no.6:3-11 Je '58

(MIRA 11:7)

1. Iz otdeleniya vosstanovitel'noy khirurgii (zav. - prof. V.I. Rozov) Leningradskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii. Adres V.I. Rozova: Leningrad F-31, ul. Przheval'skogo, g.4. kv.7)

(FINGERS, wds. & inj.

flexor, tendon, primary suture, problems (Rus))

LIMBERG, A.A. nauchnyy sotrudnik (Leningrad, Isaakiyevskaya pl., d.7,
kv.6)

Morphological changes in macerated human cartilage in auto- and
homoplasty [with summary in English]. Vest.khir. 81 no.10:57-61
O '58 (MIRA 11:11)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta
travmatologii i ortopedii (dir. - prof. V.S. Balakina).
(CARTILAGE, transpl.
auto- & homografts, morphol. changes (Rus))

LIMBERG, A. A., Candidate Med Sci (diss) -- "Support and contour plastic surgery with pulverized cartilage forced into the tissue with a revolver syringe". Leningrad, 1959. 24 pp (Min Health RSFSR, First Leningrad Med Inst im Acad I. P. Pavlov), 300 copies (KL, No 25, 1959, 141)

LIMBERG, A.A.

Local plastic methods of discision of small dorsal and volar
interdigital skin folds. Acta chir.plast. 2 no.4:331-338 '60.

1. Chair of Maxillary and Facial Surgery of the State Postgraduate
Medical School Department of Maxillary and Facial Surgery of the
Leningrad Institute of Traumatology and Orthopaedics Leningrad
(U.S.S.R.)

(HAND wds & inj)

(BURNS compl)

(CONTRACTURE etiol)

ROZOV, V.I.; LIMBERG, A.A.

Primary suture and early tendoplasty of the flexor tendons of the
hand. Vest.Khir. 84 no.6:15-22 Je '60. (MIRA 13:12)
(HAND--SURGERY) (TENDONS--SURGERY)

BAKULEV, A.N., akad.; BLOKHIN, N.N.; BOGUSH, L.K.; VELIKORETSKIY, A.N., prof.; VOZNESENSKIY, V.P., prof., zasl. deyatel' nauki [deceased]; GULYAYEV, A.V., prof.; DANILOV, I.V., prof.; DUBOV, M.D., doktor med. nauk; KAZANSKIY, V.I., prof.; LIMBERG, A.A.; LINBERG, B.E., zasl. deyatel' nauki, prof.; MEDVEDEV, I.A., dots.; MESHALKIN, Ye.N., prof.; MIRONOVICH, N.I., doktor med. nauk; NIKOLAYEV, O.V., prof.; NIFONTOV, B.V., doktor med. nauk; PETROVSKIY, B.V.; PRIOROV, N.N. [deceased]; RIKHTER, G.A., prof.; ROVNOV, A.S., prof.; RUFANOV, I.G.; STRUCHKOV, V.I.; SHRAYBER, M.I., doktor med. nauk; GORELIK, S.L., dots., red.; YELANSKIY, N.N., red.; SALISHCHEV, V.E., zasl. deyatel' nauki, prof. [deceased]; RYBUSHKIN, I.N., red.; BUL'DYAYEV, N.A., tekhn. red.

[Surgeon's reference book in two volumes] Spravochnik khirurga v dwukh tomakh. Pod obshchei red. A.N. Velikoretskogo i dr. Moskva, Medgiz. Vol. 1. 1961. 564 p. (MIRA 14:12)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrovskiy, Priorov, Rufanov, Limberg). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Bogush, Struchkov, Yelanskiy). (SURGERY)

LIMBERG, A. A.

Late results of homotransplantation with chopped cartilage. Acta chir. plast. 4 no.1:59-68 '62.

1. Research Institute for Traumatology and Orthopaedics, Leningrad (U.S.S.R.) Director: Prof. V. S. Balakina.

(CARTILAGE transpl)

LIMBERG, Aleksandr Aleksandrovich; UDERMAN, Sh.I., red.; KHARASH,
G.A., tekhn. red.

[Planning of local plastic operations on the surface of
the body; theory and practice] Planirovani~~e~~ mestnoplastiche-
skikh operatsiy na poverkhnosti tela; teoriia i praktika.
Rukovodstvo dlia khirurgov. Leningrad, Medgiz, 1963. 594 p.
(MIRA 16:5)

(SURGERY, PLASTIC)

SOOLYATTE, Valentina Ivanovna, kosmetolog; LIMBERG, Alla Aleksandrovna, kand.med.nauk, khirurg; MUKHIN, Mikhail Vladimirovich, doktor med. nauk, prof.; BONDARCHUK, Anton Vasil'yevich, neyrokhirurg, laureat Gosudarstvennoy premii, doktor med. nauk; KRIVOSHEYEV, Vasil'y Ivanovich, kand.med.nauk; KOZHEVNIKOV, Petr Vasil'yevich; ZYKOV, N.

A new type of plastic surgery. Nauka i zhizn' 30 no. 6:81-83
Je '63. (MIRA 16:7)

1. Otdeleniye chelyustno-litsevoy khirurgii Leningradskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (for Limberg). 2. Voenno-meditsinskaya akademiya imeni S.M. Kirova (for Mukhin). 3. Zaveduyushchiy khirurgicheskim otdeleniyem Leningradskoy kosmeticheskoy polikliniki (for Krivosheyev). 4. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kozhevnikov).

LIMBERG, A.A., prof. (Leningrad, Isaakiyevskaya ploshchad', d.7, kv.6)

Correction of a short nasal septum in bilateral congenital aplasia of the upper lips. Vest. khir. 91 no.11:136-144 N '63.

(MIRA 17:12)

1. Iz kafedry chelyustno-litsevoy khirurgii (zav. - prof. A.A.Limberg) Leningradskogo instituta usovershenstvovaniya vrachey imeni S.M.Kirova i Instituta travmatologii i ortopedii.

S/035/61/000/012/042/043
A001/A101

AUTHOR: Limberg, A. I.

TITLE: Phototachymeter - theodolite ГДМ (GDM) and its field tests

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 12, 1961, 42, abstract 12G271 ("Sb. tr. po vopr. marksheyd. dela", (VNIMI, 41), Leningrad, 1961, 200 - 208)

TEXT: The GDM phototachymeter is briefly described (cf. RZhAstr, 1961, 10G219), and the results of its testing on a VNIMI comparator and in open cuts of the "Vakhrushevugol'" trust are cited. The results of measuring 5 lines on the comparator are given in the table

Number of observations	Length of line, m	Difference in line length, measured with band and GDM, cm	Mean square error in inner convergence, cm	
			of one observation	of the result
11	279	-3.9	±19.5	±5.6
6	259	-0.6	27.1	11.1
5	239	-2.9	18.3	8.2
8	219	-2.8	12.6	4.4
75	199	-0.9	31.4	3.6

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Phototachymeter...

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Field tests of the GDM consisted in measuring 9 sides of a 4-class triangulation network and 3 sides of an analytical network which were determined with an error of the order of 1:50,000. The lengths of triangulation sides were 0.5 - 2.2 km, and those of analytical network were 0.5 - 1.4 km. The measurements of the sides were conducted with a differing number of observations - from 10 to 134. Relative errors in measuring the sides of triangulation with GDM, calculated from inner convergence, amounted to 1:9,600 - 1:47,000, and those for analytical network - 1:8,900 - 1:22,400. Moreover, a side of municipal 2-class triangulation, 2.4 km long, was measured with GDM by 10 observations. The divergence in the line length determined from triangulation and measured with GDM, was equal to 6.5 cm. Mean square error of measuring with GDM (from inner convergence) for one observation was ± 19.0 cm, and for the total result ± 6.1 cm. The field tests have shown that GDM can be used for observations during both day and night; time expenditure on measuring a line (independent of its length) is not over 1 hour. The combination in GDM of two parts, angle measuring and range finding, makes it possible to extensively use it in mining surveying for linear and linear-angular intersections as well as for polygonometric and theodolite traverses. ✓

V. Sinyagina

[Abstracter's note: Complete translation]

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LIMBERG, A.I., inzh.

Required accuracy in measuring distances with small geodimeters.
Izv. vys. uch. zav.; gor. zhur. 5 no.6:28-31 '62. (MIRA 15:9)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo
Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana
kafedroy marksheyderskogo dela.

(Geodimeter)

L 10321-67 EWP(m)/EWT(1)/EWT(m)/EWP(k)/EWP(t)/ETI -IJP(c) JD/WW/HW

ACC NR: AP6030443

SOURCE CODE: UR/0420/66/000/006/0116/0119

AUTHOR: Limberg, E. A.

ORG: None

TITLE: Determining the extinction coefficient of a shock wave from the energy at a barrier made up of air bubbles

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 6, 1966, 116-119

TOPIC TAGS: shock wave decay, shock wave propagation, cylindric shock wave, adiabatic compression

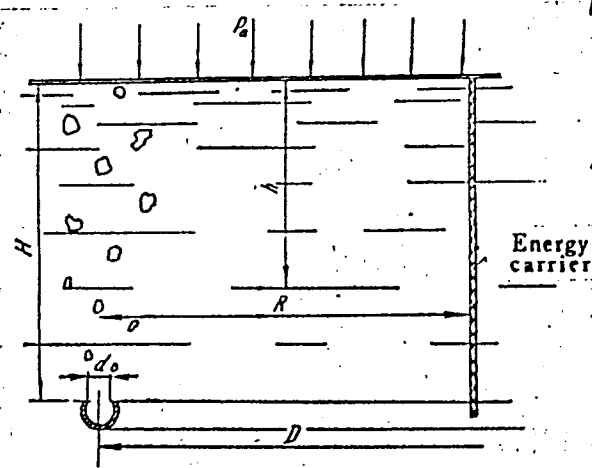
ABSTRACT: A method is proposed for determining the damping properties of an air-bubble screen in terms of the work of adiabatic compression of the air bubbles for the case of a cylindrically symmetric shock wave front. Expressions are derived for determining the parameters of a bubble formed by forcing air through a rigid collector submerged in water (see figure). It is shown that the energy damping power of an air-bubble curtain is equal to the ratio between the total energy expended in adiabatic compression of the air bubbles and the energy carried by the shock wave front. The proposed method may also be used for the case of a spherically symmetric shockwave front if the work of adiabatic compression is determined in several cross sections with respect to bubble height. The approximate nature of the method derives from failure to account for energy losses in the shock wave when it is reflected from the air bubbles and energy dissipation during propagation in the liquid. However, energy dissipation may be disregarded since the dimensions of the air collectors are small.

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ACC NR: AP6030443

This results in a slight increase in the actual extinction coefficient of the air-bubble curtain in comparison with the theoretical value. Calculations by the proposed method show that 7-10% of the energy of the incident shock wave is expended in compression of the air-bubble curtain although the theoretical extinction coefficient is somewhat lower than the actual value since the sphere loses its symmetric shape during compression by the shock wave. Orig. art. has: 1 figure, 17 formulas.



Explosive Forming Relationship

SUB CODE: 20/ SUBM DATE: 66/ ORIG REF: 005

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R/008/61/000/001/004/011
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10.4000 also 1103, 1327

AUTHOR: Limberg, H.

TITLE: The laminar inlet flow into a convergent canal

PERIODICAL: Studii și cercetări de mecanică aplicată,
no. 1, 1961, 47 - 59

TEXT: Based on two fundamental works of H. Görtler (Ref. 1: A new series for the calculation of steady boundary layer flows. Journ. of Math. and Mechanics, 6, 1, 1957;) and (Ref. 2: a) Zahlentafeln universeller Funktionen zur neuen Reihe für die Berechnung laminarer Grenzschichten (Numerical Tables of Universal Functions for the new Series for Calculating Laminar Boundary Layers), Bericht Nr. 34 der Deutschen Versuchsanstalt für Luftfahrt, 1957; b) Staff of the Computation Laboratory, "Solution of Boundary Layer Flow Equations" Design and Operation of Digital Calculating Machinery, Progress Report Nr. 37, Harvard Computation Laboratory, March 1955), the author calculates by exact methods the velocity field of a non-com-

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The laminar inlet flow ...

compressible laminar flow in the immediate vicinity of the inlet into a convergent canal. This paper was first delivered at the Jubilee Session of the Institutul de mecanică aplicată "Traian Vuia" (Institute of Applied Mechanics) from July 4 - 7, 1960. The mathematical investigation of this problem is based on the boundary layer equation and on the continuity of the plane problem. Due to the geometrical shape of the walls, the following polar coordinates are indicated: r , is the distance of a point of the flow field from the intersection of the two walls of the canal and φ , the polar angle, measured from the lower wall in a positive direction. The boundary layer and continuity equations assume the following shape in polar coordinates:

$$v_r \frac{\partial v_r}{\partial r} + \frac{v_\varphi}{r} \frac{\partial v_r}{\partial \varphi} = U(r) \frac{dU}{dr} + \frac{\nu}{r^2} \frac{\partial^2 v_r}{\partial \varphi^2}, \quad (1)$$

and

$$\frac{\partial (rv_r)}{\partial r} + \frac{\partial \tau_\varphi}{\partial \varphi} = 0, \quad (2)$$

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The laminar inlet flow ...

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Equations

$$v_r(r, 0) = v_\varphi(r, 0) = 0, \quad (3) \quad (3)$$

$$v_r(r, \alpha) = U(r) \quad (4) \quad (4)$$

$$v_r(R_0, \varphi) = U(R_0) = -u_0, \quad (5) \quad (5)$$

together with the condition of the constant mass flow in the time unity through every section of the canal

$$M(r) = \int_0^\alpha r v_r(r, \varphi) d\varphi = -u_0 R_0 \alpha, \quad (6) \quad (6)$$

form the boundary conditions; the secondary conditions of the problem. $v_r(r, \varphi)$ and $v_\varphi(r, \varphi)$ are the components of the flow velocities at the point (r, φ) in the direction r , and the perpendicular direction φ , respectively, whereas $u(r)$ represents the nucleus of the flow in the middle of the canal beyond the boundary layers. The distance between the inlet edges and the intersection 0 of the

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The laminar inlet flow

two walls of the canal are designated R_0 and the inlet velocity, constant along the whole section - $-u_0 (u_0 > 0)$. Due to the symmetry the author considers only the field: $0 \leq \varphi \leq \alpha$, $r \leq R_0$, $r \approx R_0$. The solutions $v_r(r, \varphi)$, $v_\varphi(r, \varphi)$ and $U(r)$ have to be determined so that the boundary conditions and the secondary conditions (3) - (6) should be satisfied. The integration of the boundary layer equations is accomplished by the "Görtler series", established in Refs. 1 and 2 (Op.cit.). In order to find an exact solution, the continuity equation is integrated by introducing the flow function $\psi(r, \varphi)$ taking

$$v_r(r, \varphi) = -\frac{1}{r} \frac{\partial \psi}{\partial \varphi}; \quad v_\varphi(r, \varphi) = \frac{\partial \psi}{\partial r},$$

and introducing the corresponding derivatives into the differential boundary layer Eq. (1), obtaining thus equation.

$$\frac{1}{r^2} \frac{\partial \psi}{\partial \varphi} \frac{\partial^2 \psi}{\partial r \partial \varphi} - \frac{1}{r^3} \left(\frac{\partial \psi}{\partial \varphi} \right)^2 - \frac{1}{r^2} \frac{\partial^2 \psi}{\partial \varphi^2} = U \frac{dU}{dr} - \frac{v}{r^2} \frac{\partial^3 \psi}{\partial \varphi^3}. \quad (1') \quad (1')$$

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The laminar inlet flow ...

By the transformations

$$\xi = \frac{1}{v} \int_{R_0}^r U(r) dr, \quad (7) \quad (7)$$

and

$$\eta = - \frac{r \varphi U(r)}{\left(2v \int_{R_0}^r U(r) dr\right)^{1/2}} = - \frac{r \varphi U(r)}{v(2\xi)^{1/2}} \quad (8) \quad (8)$$

as well as by hypothesis

$$\psi(r, \varphi) = v(2\xi)^{1/2} F(\xi, \eta), \quad (9) \quad (9) \quad X$$

it is possible to give differential equation (1') the Görtler shape

$$F_{\eta\eta} + FF_{\eta\eta} + \beta(\xi)(1 - F_{\eta}^2) = 2\xi(F_{\eta}F_{\xi\eta} - F_{\xi}F_{\eta\eta}), \quad (1'') \quad (1''')$$

and

$$\beta(\xi) = \frac{2U'}{U^2} \int_{R_0}^r U(r) dr = 2v\xi \frac{U'}{U^2} \quad (10) \quad (10)$$

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The laminar inlet flow ...

in which $B(\xi)$ is the so-called principal function. The condition of the constant delivery may be established by using the series

$$F(\xi, \eta) = \sum_{i=0}^{\infty} F_i(\eta) \xi^{\frac{i}{2}} = F_0(\eta) + F_{\frac{1}{2}}(\eta) \xi^{\frac{1}{2}} + F_1(\eta) \xi + \dots \quad (11)$$

and

$$B(\xi) = \sum_{i=0}^{\infty} B_{\frac{i}{2}} \xi^{\frac{i}{2}} = B_0 + B_{\frac{1}{2}} \xi^{\frac{1}{2}} + B_1 \xi + \dots \quad (12)$$

The author then deduces the following system of usual infinite differential equations

$$F_0''' + F_0 F_0'' + \beta_0 (1 - F_0^{12}) = 0, \quad (13_0) \quad (13_0)$$

and

$$F_{\frac{1}{2}}''' + F_0 F_{\frac{1}{2}}'' - (2\beta_0 + k) F_0' F_{\frac{1}{2}}' + (k+1) F_0'' F_{\frac{1}{2}} = R_{\frac{1}{2} k-1}(\eta), \quad (13_k)$$

$$\text{on } k = 1, 2, 3, \dots \quad (13_k)$$

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$$R_{\frac{1}{2}, k-1}(\eta) = \beta_{\frac{1}{2}, k} (F_0^{1/2} - 1) + \sum_{i=1}^{k-1} \left(\sum_{j=1}^i F_{\frac{1}{2}, j}^{\prime}, F_{\frac{1}{2}, (i-j)}^{\prime} \right) \beta_{\frac{1}{2}, (k-i)} + \\ F_0^{\prime} \sum_{i=1}^{k-1} F_{\frac{1}{2}, i}^{\prime} \beta_{\frac{1}{2}, (k-i)} + \sum_{i=1}^{k-1} (\beta_0 + k-i) F_{\frac{1}{2}, i}^{\prime} F_{\frac{1}{2}, (k-i)}^{\prime} - \sum_{i=1}^{k-1} (k-i+1) F_{\frac{1}{2}, i}^{\prime} F_{\frac{1}{2}, (k-i)}^{\prime} \quad (13_k)$$

If the solutions $F_0(\eta)$, $F_1(\eta)$, etc. satisfy the boundary conditions

$$F_0(0) = F_0'(0) = 0; \quad F_0'(\eta_\alpha) = 1 \quad (14_0)$$

and

$$F_{\frac{1}{2}k}(0) = F_{\frac{1}{2}k}'(0) = 0; \quad F_{\frac{1}{2}k}'(\eta_\alpha) = 0, \text{ with } \eta_\alpha = -\frac{\alpha r U(r)}{(2\xi)^{1/2}}, \quad (14_k) \quad \checkmark$$

η_α being the value of $\eta = \alpha$ corresponding to η , then the boundary conditions and the secondary condition of the flow problem of this

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article are fulfilled. Taking into consideration that $F_{\frac{1}{2}k}(\eta)$ depends on the coefficients $\beta_{\frac{1}{2}i}$ ($0 \leq i \leq k$), Görtler deduced the differential equations and the boundary condition equation

$$\begin{aligned} \underline{k=1}: L_{\frac{1}{2}} \left[f_{\frac{1}{2}} \right] &= F_0^{12} - 1 \quad \underline{k=2}: L_1 [f_1] = F_0^{12} - 1, \\ L_1 \left[f_{\frac{1}{2}} \right] &= 2 F_0' f_{\frac{1}{2}} + (\beta_0 + 1) f_{\frac{1}{2}}^2 - 2 f_{\frac{1}{2}} f_{\frac{1}{2}}'', \end{aligned} \quad (16)$$

$$\underline{k=3}: \quad (18)$$

$$L_{\frac{1}{2}} \left[f_{\frac{1}{2}} \right] = F_0^{12} - 1,$$

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$$L_3 \left[\frac{f_1}{2} \right] = 2F_0' (f_1' + f_1') + (2B_0 + 3) \frac{f_1'}{2} f_1' - 2f_1' f_1'' - 3f_1''' f_1, \quad (17)$$

$$L_3 \left[\frac{f_1}{2} \frac{1}{2} \frac{1}{2} \right] = 2F_0' \frac{f_1'}{2} \frac{1}{2} + \frac{f_1'^2}{2} + (2B_0 + 3) \frac{f_1'}{2} \frac{f_1'}{2} - 2f_1' \frac{f_1'}{2} - 3f_1' f_1' \frac{1}{2},$$

$$L_1 \left[\frac{f \dots}{2} \right] = f''' \dots + F_0' f'' \dots - (2B_0 + k) F_0' f' \dots + (k + 1) F_0' f \dots \quad (18)$$

$$f \dots (0) = f' \dots (0) = f'' \dots (\eta_\infty) = 0$$

for the functions $f_1(\eta)$, $f_1'(\eta)$, $f_1''(\eta)$, etc, in which there appear

no other B_1 coefficients of the principal function except B_0 .

Thus, in the case of $B_0 = 0$, one may calculate and tabulate the

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universal functions $f \dots (\eta)$. In the case of $\eta_0 = \infty$ and starting with $\eta = 6$, the solutions $f \dots (\eta)$ vary only slightly, practically remaining constant for $\eta \geq 6$. Thus, the boundary problems (16) - (18) were solved with the same universal functions $f \dots (\eta)$ for all values of $\eta \geq 6$. As asymptotic values of the universal functions the author obtained

$$\begin{aligned} F_0(\eta_\alpha) &= \eta_\alpha + c_0, & c_0 &= -1,216777, \\ f_{\frac{1}{2}}(\eta_\alpha) &= c_{\frac{1}{2}}, & & (\approx 1,35), \\ f_1(\eta_\alpha) &= c_1, & & (=1,126359), \\ f_{\frac{1}{2}1}(\eta_\alpha) &= c_{\frac{1}{2}1}, & & (\approx -2,25), \\ f_{\frac{3}{2}}(\eta_\alpha) &= c_{\frac{3}{2}}, & & (\approx 1,0), \\ f_{\frac{1}{2}1}(\eta_\alpha) &= c_{\frac{1}{2}1}, & & (\approx -3,3), \\ f_{\frac{1}{2}11}(\eta_\alpha) &= c_{\frac{1}{2}11}, & & (\approx 4,2), \end{aligned} \quad (19)$$

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For the central flow velocity, $U(r)$, he established the hypothesis

$$U(r) = -\frac{u_0 R_0}{r} + V(r) \quad (2')$$

with $V(R_0) = 0$. The expressions

$$V(r) = \sum_{i=1}^{\infty} v_i (R_0 - r)^{\frac{i}{2}} \quad (20)$$

for $V(r)$, and the expression

$$U(r) = -\frac{U_0 R_0}{r} + v_{\frac{1}{2}} (R_0 - r)^{\frac{1}{2}} + v_1 (R_0 - r) + v_{\frac{3}{2}} (R_0 - r)^{\frac{3}{2}} + \dots \quad (21)$$

for $U(r)$ are sufficiently general to fulfill the condition of the constant delivery. After additional calculations and equalizing the coefficients, the author obtained

$$\beta(\xi) = 2 \sqrt{\xi} \frac{U'}{U^2} = \beta_0 + \beta_{\frac{1}{2}} \xi^{\frac{1}{2}} + \beta_1 \xi + \beta_{\frac{3}{2}} \xi^{\frac{3}{2}} + \dots \text{și coeficienții } v_{\frac{1}{2}} \text{ ai vitezei} \quad (22)$$

centrale $U(r)$. (and the coefficient $v_{\frac{1}{2}}$ of the central

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velocity $U(r)$).

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$$\beta_0 = 0$$

$$\beta_{\frac{1}{2}} = -\frac{v_{\frac{1}{2}}}{u_0} \left(\frac{v}{u_0} \right)^{\frac{1}{2}} \quad (22)$$

$$\beta_1 = -\frac{v}{u_0} \left(2 \frac{v_1}{u_0} + \frac{5}{3} \frac{v_{\frac{1}{2}}^2}{u^2} - \frac{2}{R_0} \right) \quad (22)$$

$$\beta_{\frac{3}{2}} = -\left(\frac{v}{u_0} \right)^{\frac{3}{2}} \left(3 \frac{v_{\frac{3}{2}}}{u_0} + \frac{23}{4} \frac{v_{\frac{1}{2}} v_1}{u_0^2} + \frac{17}{6} \frac{v_{\frac{1}{2}}^3}{u_0^3} - \frac{23}{4} \frac{v_{\frac{1}{2}}}{u_0 R_0} \right) \quad (23)$$

$$v_{\frac{1}{2}} = -u_0 \left(\frac{u_0}{v} \right)^{\frac{1}{2}} \beta_{\frac{1}{2}}$$

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$$v_1 = \frac{u_0}{R_0} - \frac{u_0^2}{2v} \left(\beta_1 + \frac{5}{3} \beta_1^2 \right) \quad (23)$$

$$v_2 = -\frac{u_0}{3} \left(\frac{u_0}{v} \right)^{\frac{3}{2}} \left(\beta_2 + \frac{23}{8} \beta_1 \beta_2 + \frac{47}{24} \beta_1^2 \right)$$

between the coefficients $\beta_{\frac{1}{2}}$ of the principal function, introduced into (12). The condition of the constant delivery (6) is deduced

$$R_0 \cdot U_0 + r \cdot U = v \sqrt{2} \left[c_0 \xi^{\frac{1}{2}} + \frac{\beta_1}{2} c_1 \xi^{\frac{3}{2}} + \left(\beta_1 c_1 + \frac{\beta_1^2}{2} c_1 \frac{1}{2} \right) \xi^{\frac{3}{2}} + \right] \quad (24)$$

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$$+ \left(\beta_{\frac{3}{2}} c_{\frac{3}{2}} + \beta_1 \beta_{\frac{1}{2}} c_{\frac{1}{2}} + \beta_{\frac{1}{2}}^3 c_{\frac{1}{2}} \frac{1}{2} \frac{1}{2} \right) \xi^2 + \dots \quad (24)$$

into which the author now inserts both members of the same variable, $\xi^{\frac{1}{2}}$ or $(R_0 - r)^{\frac{1}{2}}$, in order to obtain the coefficients $\beta_{\frac{1}{2}}$. On the basis of (22), the coefficients $\beta_{\frac{1}{2}}$ may be expressed by α , Re , and $c \dots$, as

$$\beta_{\frac{1}{2}} = \frac{2c_0 \sqrt{2}}{Re} \quad (27)$$

$$\beta_1 = \frac{4\alpha}{Re} + \frac{8c_0}{Re^2} \left(2c_{\frac{1}{2}} - c_0 \right)$$

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$$\beta_{\frac{1}{2}} = -8\sqrt{2} \left[\frac{\alpha}{Re^2} (3c_1 - c_0) + \frac{c_0}{Re^3} \left(2c_0^2 + 6c_0 c_{\frac{1}{2}} - 6c_0 c_1 + 12c_1 c_{\frac{1}{2}} - 6c_0 c_{\frac{1}{2}} \right) \right]. \quad (27)$$

Since the theory of the boundary layer deals only with large Reynolds numbers, i.e. 500 - 2,000, whereas α is small, i.e. 0⁰ - 50, the influence of higher terms of (26) and (27) may be assumed with good approximation. There are 3 figures and 6 non-Soviet-bloc references. The references to the English-language publications read as follows: H. Görtler, A new series for the calculation of steady boundary layer flows. Journ. of Math. and Mechanics, 6, 1, 1957; and H. Görtler, Staff of the Computation Laboratory, "Solution of Boundary Layer Flow Equations". Design and Operation of Digital Calculation Machinery, Progress Report Nr. 37, Harvard Computation

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The laminar inlet flow ...

Laboratory, March 1955.

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ASSOCIATION: Institut für Mathematik und Angewandte Mechanik der
Deutschen Akademie der Wissenschaften in Berlin (In-
stitute of Mathematics and Applied Mechanics of the
German Academy of Sciences in Berlin)

Card 16/16

LIMBERG, Ye. L.

Effect of inorganic phosphates on the formation of citric, gluconic and oxalic acids in *Aspergillus niger* Saccus
L. Vov and E. L. Limberg. (*comp. read only*). Expts. with U. R. S. S. 21, 1048 (1937) (in English). Expts. with KH_2PO_4 introduced with sugar soln. under the film of *Aspergillus niger* showed a more intensive consumption of sugar, i.e. increase 13%, max. increase 30% and an increase in total acidity (as 21.0% and max. 42%), the latter being due to the stimulating action of KH_2PO_4 on citric acid formation (av. 45.8% and max. 84%). Intensive accumulation of citric acid occurs mainly during the first 24 hours. Introduction of the effect of KH_2PO_4 is slower, effect. on oxalic acid is even somewhat reduced, while the yield of gluconic acid is even somewhat increased, owing to the fact that the last-named acid is formed through direct oxidation.

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^{RUSSIAN.}
LIMBERG, Ye. L.

Limberg, Ye. L. - "Material on understanding the interrelationship between forest and steppe under the conditions of the 'Borovoye' state reserve", Trudy gos. zapovednika "Borovoye", Issue 1, 1948, p. 41-51, - Bibliog: 10 items.

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Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
General and Physical Chemistry

Number of bacteria in the water and floor of the north-western part of the Pacific Ocean. E. L. Limberg-Ruban. *Issledovaniya Dal'nevostochn. Morei S.S.S.R., Akad. Nauk S.S.S.R., Zool. Inst.* 1952, No. 3, 138-41. — Samples of water were taken with a bathometer at depths of 0.1-3500 m., and samples of solids were taken from the surface of the floor and at 30 and 70 cm. depth. The samples were taken southeast of Kamchatka. The no. of bacteria decreased with depth and at 1500 m. became insignificant. The phytoplankton decreased more rapidly with depth than did bacteria and became insignificant at 100 m. Ammonification and denitrification is greatly diminished at great depths. The no. of bacteria in the ocean floor was very small and was mostly concentrated on the surface. From the surface of the floor down the no. of cocci decreased and the no. of spores increased. Ammonification and denitrification in the ocean floor was greatly diminished. Ammonification was more pronounced in the upper layers of the floor and denitrification in the deeper layers. In the floor were found sulfate-reducing bacteria.

M. Hosh

EH
6-11-54

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A factory newspaper and its news photographers. Sov.foto 17
no.8-23-26 Ag '57.

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LIMBERK, J.

Limberk, J. Sexual changes in hops (Humulus lupulus). p. 243. CESHOSLOVENSKA BIOLOGIE. Praha. Vol. 3, no. 4, Aug. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

LIMBERK, J.

Effect of heteroauxin on the motion of the Alke family of regular tobacco mosaic (VTM) in the tobacco plants. p. 303.

CESKOSLOVENSKA BIOLOGIE. Vol. 3, No. 5, Oct. 1954

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Effect of heteroauxin on movement of Alke strain of tobacco mosaic virus in tobacco plant. Chekh. biol. 3 no.5:322-324 Nov 54.

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(PLANTS, hormones,

heteroauxin, eff. on tobacco mosaic virus)

(VIRUSES,

tobacco mosaic virus, eff. of heteroauxin)

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Vegetative correlation between *Nicotiana tabacum* L. and of *Nicotiana glutinosa* L. in tobacco mosaic virus infection. *Fol.biol.*, Praha
1 no.4:230-241 30 Aug 55.

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tobacco mosaic virus of *Nicotiana tabacum* & *N. glutinosa*)

LIMBERK, Jaroslav; BRCAK, Jaroslav

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Nicotiana tabacum L. and N. glutinosa L. with tobacco mosaic
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tobacco mosaic virus, infect. of Nicotiana
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POZDENA, Jiri; SVOBODOVA, Jarmila; PETRU, Eva; LIMBERK, Jaroslav;
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Pea mosaic virus in Czechoslovakia. Cesk. biol. 4 no.6:371-383
June 55.

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 pea mosaic virus)
 (PEAS,
 pea mosaic virus)

LIMBERK J.

CZECHOSLOVAKIA/Plant Diseases. Diseases of Cultivated Plants

C-3

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91958

Author : Blatnyy Brechek Ya., Limberk Ya., Boynyanskiy V.

Inst : -

Title : On the Problem of Epidemiology of Stolbur (Chlorogenus australiensis infection of Solanaceae: a common name for tomato big-bud virus infection) in Czechoslovakia, Particularly Stolbur in Potatoes.

Orig Pub : Folia biol. (Ceskosl.), 1956, 2, No 3, 181-190

Abstract : No abstract

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CZECHOSLOVAKIA / Plant Diseases. Cultivated Plants

Abs Jour: Ref Zhur-Biol., 1958, No 17, 78015

Author : Blatny, Ctibor; Brechek, Jaroslav; Limberk, Jaroslav; Bojnansky, Vit

Inst : Not given

Title : The Problem of the Epidemiology of Big Buds in Czechoslovakia and the Peculiarity of Big Buds of Potatoes.

Orig Pub: Ceskosl. biol., 1956, 5, No 2, 95-104

Abstract: On the basis of a study of the ecology of Hyalosthes obsoletus Sign. and of the Regional Area of big bud infestation the possibility is established of the transfer of big buds of potatoes by tubers, apart from insects. By the transfer of the infections through tubers, the disease of potatoes with big buds in periods when

Card 1/2

7

CZECHOSLOVAKIA/Cultivated Plants - Fr its. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82474

Author : Limberk, Jaroslav

Inst : ..

Title : Possible Relation of Agrobacterium rhizogenes (Riker) to Rooting in Fruit Trees.

Orig Pub : Cekosl. biol., 1957, 6, No 2, 142-149

Abstract : Biological Institute of Czechoslovak Academy of Sciences determined that some varieties and seedlings of quince and apple tree, stocks M, I, M. IV and M. IX have on their subsurface and aerial parts small protuberances containing the beginnings of rootlets. The author calls them pseudotumors or false swellings. Numerous bacteria are found in the pseudo swellings and especially in the beginnings of the rootlets, which could not yet be identified (experiments on their isolation and transplanting are being carried on). Judging from the data in

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... are planted into previously prepared soil and are kept constantly moist and protected from the direct sun

Card 2/3

CZECHOSLOVAKIA/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82474

rays.

Bibliography of 21 titles. -- Ye. V. Kolesnikov

Card 3/3

~~LIMBERK, Jaroslav~~
~~SURNAME, Given Name~~ "APPROVED FOR RELEASE: 07/12/2001" CIA-RDP86-00513R000929920015-

Country: Czechoslovakia

Academic Degrees: not given

Affiliation: Biologic Institute, Czechoslovak Academy of Sciences,
Dept. of Phytopathology, Prague (Biologicky Ustav CSAV
oddeleni fytopatologie)

Source: Prague, Biologia Plantarum, Vol 3, No 4, 1961; pp297-304.

Data: Dependence of the Reproduction of the Tobacco Mosaic Virus
from the Changes in Position of the Growing Shoots"

(CSAV: Ceskoslovenska Akademie Ved)